

[illegible]

**Fig. 1A**

2/14

MDYGGALSAVGRELLFVTNPVVVNGSVLVPEDQCYCAGWIE  
SRGTNGAQTASNVLQWLAAGFSILLMFYAYQTWKSTCGWE  
EIYVCAIEMVKVILEFFFEFKNPSMLYLATGHRVQWLRYAEWL  
LTCPVILIHLSNLTGLSNDYSRRTMGLLVSDIGTIVWGATSAMA  
TGYVKVIFFCCLGLCYGANTFFHAAKAYIEGYHTVPGRCRQV  
VTGMAWLFFVSWGMFPILFILGPEGFGVLSVYGSTVGHTIIDL  
MSKNCWGLLGHYLRVLIHEHILIHGDIRKTTKLNIGGTEIEVETL  
VEDEAEAGAVNKGTGKYASRESFLVMRDKMKEKGIDVRASL  
DNSKEVEQEQAARAAMMMMNNGNGMGMGMGMNGMNGMG  
GMNGMAGGAKPGLLETPQLQPGRVILAVPDISMVDFFREQFA  
QLSVTYELVPALGADNTLALVTQAQNLGGVDFVLIHPEFLRDR  
SSTSILSRLRGAGQRVAAFGWAQLGPMRDLIESANLDGWLE  
GPSFGQGILPAHIVALVAKMQQMRKMQQMQQIGMMTGGMN  
GMGGGMGGGMNGMGGGNGMNNMGNGMGGGMGNGMG  
NGMNGMGGGNGMNNMGNGMAGNGMGGGMGGNGMG  
SMNGMSSGVVANVTTPSAAGGMGGMMNGGMAAPQSPGMN  
GGRLGTNPLFNAAPSPLSSQLGAEAGMGSMGGMGMSGM  
GGMGGMGGMGGAGAATTQAAGGNAEAEMLQNLNMNEINRL  
KRELGE

Fig 1B

MlptavegvsqAQITGRPEWIWLALGTALMGLGTLYFLVKGMGVS  
DPDAKKFYAITTLVPAIAFTMYLSMLLGYGLTMVPFGGEQNPI  
YWARYADWLFTTPLLLLLDLALLVDADQGTILALVGADGIMIGT  
GLVGALTKVYSYRFVWWAISTAAMLYILYVLFFGFTSKAESMR  
PEVASTFKVLRNVTVVLWSAYPVWWLIGSEGAGIVPLNIETLLF  
MVLDVSAKVGFGILLRSRAIFGEAEAPEPSAGDGAAATSD

Fig. 1C

4/14

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Chop1..MSRRPWLLALALAAAGSAGASTGSDATVPVATQDGPDYVFHRAHEMI FQTSYTLN 60
Chop2.....MDYGGALS AVGRELLFVTNPVV 23
Bop.....M

Chop1..NGSVICIPNNGQCFCLAMLKN--GTAEEKLAANI LOMITFALSALCLMEYCYCHWKSTC 118
Chop2..NGSVL-VPED-QCYCAGMIESR- -GTNGAQTASNVLEONLAAQFSIILIMFYAYCHWKSTC 79
Bop..LPTAVEGVSAQITGRPEEWIWLALCTALMG GTLYFLVKGMGVSDPDAKKEFYAITTLVPA 51

Chop1..GWEETLVVATTEMIKFIIEYFHEFDEPAVIVSSNCKNTVMERNAEMELLTCPPVILHHISNIT 178
Chop2..GWEETLVVCAIEMVAVILLFFFEFKNPSMLLATGHRVQWIERNAEMELLTCPPVILHHISNIT 139
Bop..IAFTMY---LSMLLGYGLTMVPEGGEQ-----NPIYNARADWIEFTTLLDIA-L 100

Chop1..GLANDANKRPTM-GLLVSDIGTHVWCITTAALSKGYV-RVIEFLMGCYCIGYIFENAA-KVY 235
Chop2..GLSNDKSRPTM-GLLVSDIGTHVWCATSAMATGYV-KVIEFFCLGLCYGANIFFHAA-KAY 196
Bop..V-DAN-Q-GTILALVGADGIMGTGLVGATKVNYSRFVWVAISTAAMLILYVLEFFGT 157

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Fig. 1D

	*	*	*	*	*
Chop1..	IEAYHTVPKGCICRDLVRYLAWLYFCSWAMEPVLFIILGPECFCHINQFNSAIAHAIADIAS	295			
Chop2..	IEGYHTVPKRCROVMTGMAWIFIVSTGMFPFIIFILGPEGHALLSVYGSTVGTHIDIMS	256			
Bop..	SKAESMRBEV--ASTFKVLRNVTVVLLWSAYPVWLIISSECAIIVPLNIEITLLEFMVIDVSA	215			
#					
Chop1..	KNAWTSMMCHELRVKLTHEHTILYGDIPKKQKVNVAGQEMEVETMMHEEDDETQKVP-TAKY	354			
Chop2..	KNCWGLLCXYLRVLI THEHTILIHGDIRKTTLKNIGTTEIEVEFTLMEDEBAEAGAVNKGI GKY	316			
Bop..	KVGFGLI--LIRSR AIFGEAEAPEPSAGDGA-AAATSD				
Chop1..	ANRDSEIIIMRDRLKEKGFFETRASLDGDPNGDAEANAAGCKPGMEMCKMTGMCM SMGACM	414			
Chop2..	ASKESFLVMRKMKKEKGIDVPASLDNSKEVEQEQAARAAMMMNNGMGCMGMGNMNGM	376			
Chop1..	GMATIDS-----GRVILAVPDISMVDFFREQFA RLPVPYELVPALGAENT	459			
Chop2..	GMNGMAGGAKPGLELT PQLOPGRVILAVPDISMVDFFREQFAQLS VTYELVPALGADNT	436			
Chop1..	LQIVQQAQSIGCCDEVLMHPFEFLDRDSP T GLIPKIKMGGQRAAAFQWA A I GEMRDLIEGS	519			
Chop2..	LALVTOAQN LGGVDEVLIHPFEFLDRDS STSIISRLRGAGQRVA AAFGW AOLGEMRDLIESA	496			
Chop1..	GVDCWLEGPSFCAGINQQALVALINRMQA AKKMGMG-----SMGMGMCGGGMG-M	568			
Chop2..	NLDGWLLEGPSFGQGI LPAHIVALVAKMQO MRKM QOQIGMMTGMMN CMG CGMGCGGMNGM	556			

**Fig. 1D (continued)**

Chop1...GCGMCG-MAPSMNA GGTGCGG ---ASMGG-----AVMGCMGMQPMQQAMP--AMSPM 616  
Chop2...GGNGMNNMGNMGCGGCGNGMGGNGMNGMCGCGNGMNNMCGNGMAGNGGGGCGGNGMGG 616

Chop1...MTQQP3-MMSQPSAMSAGGAMQAMGGVMPSPAP-----GCRVGTNPPLFGSAPSPSSO--- 667  
Chop2...MNGMSSGVVANVTPSAGGGMGMNGGMAAPQSPGMNGGRLGTNPPLHNAAPSPSSQLGA 676

Chop1...-----PGISPGMATPPAATAAPAGGSEAEMEQQLMSEINRLIN-ELGFK 712  
Chop2...EAGMGSMMGGMGSMGGMGGMGGMGAGAAATQAAGGNAAEAEMEQQLMSEINRLINRELGE 737

Fig. 1D (continued)

.....5....10.....5....20.....5....30.....5....40

MDYGGALSAVGRELLFVTNPVVVNGSVLVPEDQCYCAGWI	40
ESRGTNGAQTASNVLQWLAAGFSILLMFYAYQTKSTCG	80
WEEIYVCAIEMVKVILEFFFFEFKNPSMLYLATGHRVQWLR	120
YAEWLLTCPVILIRLSNLTGLSNDYSRRTMGLLVSDIGTI	160
VWGATSAMATGYVKVIFFCGLGLCYGANTFFHAAKAYIEGY	200
HTVPGKRCRQVVTGMAWLFFVSWGMFPILFILGPEGFGVL	240
SVYGSTVGHTIIDLMSKNCWGLLGHYLRVLIHEHILIHGD	280
IRKTTKLNIGGTEIEVETLVEDEAEAGAVNKGTK	315

Fig. 1E

8/14

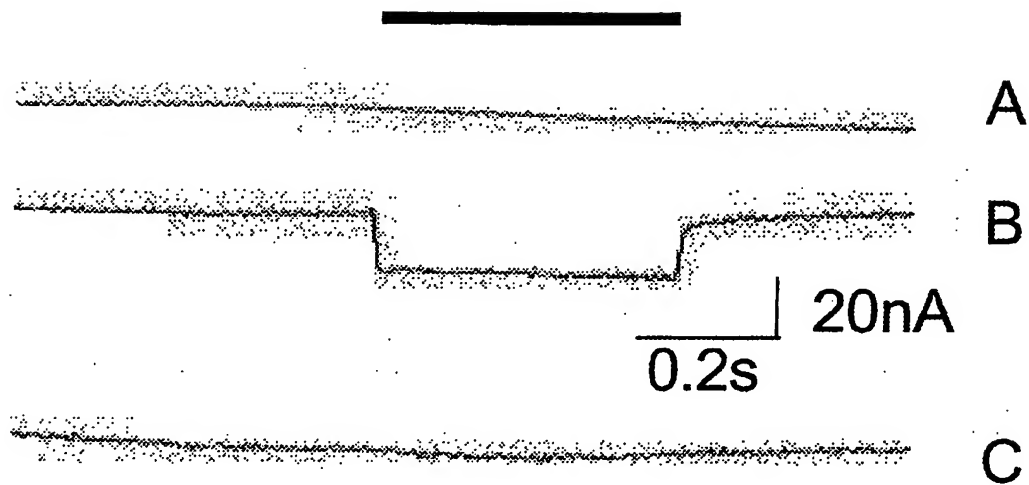
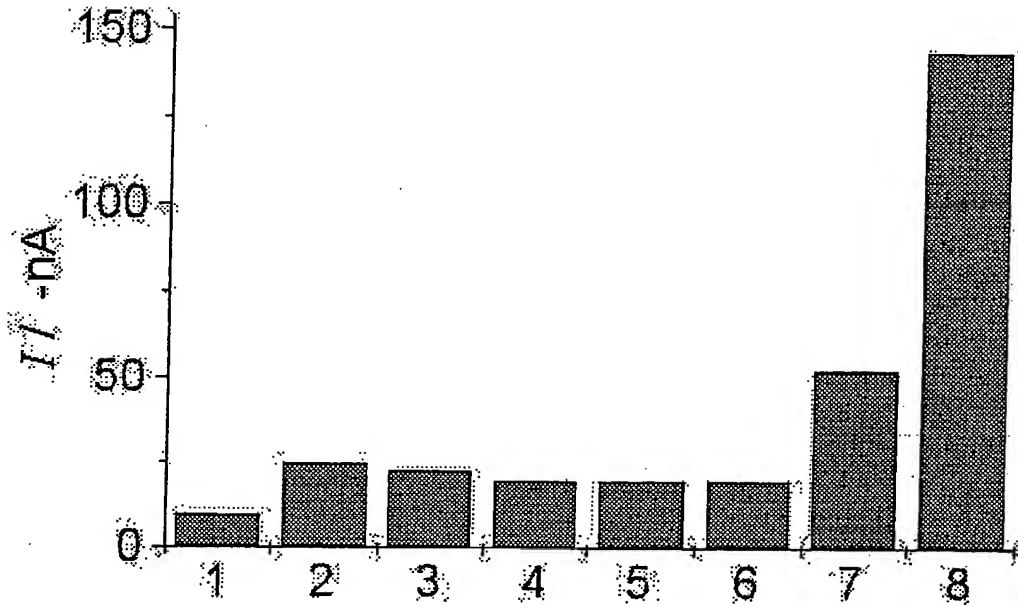


Fig. 2



9/14

a



b

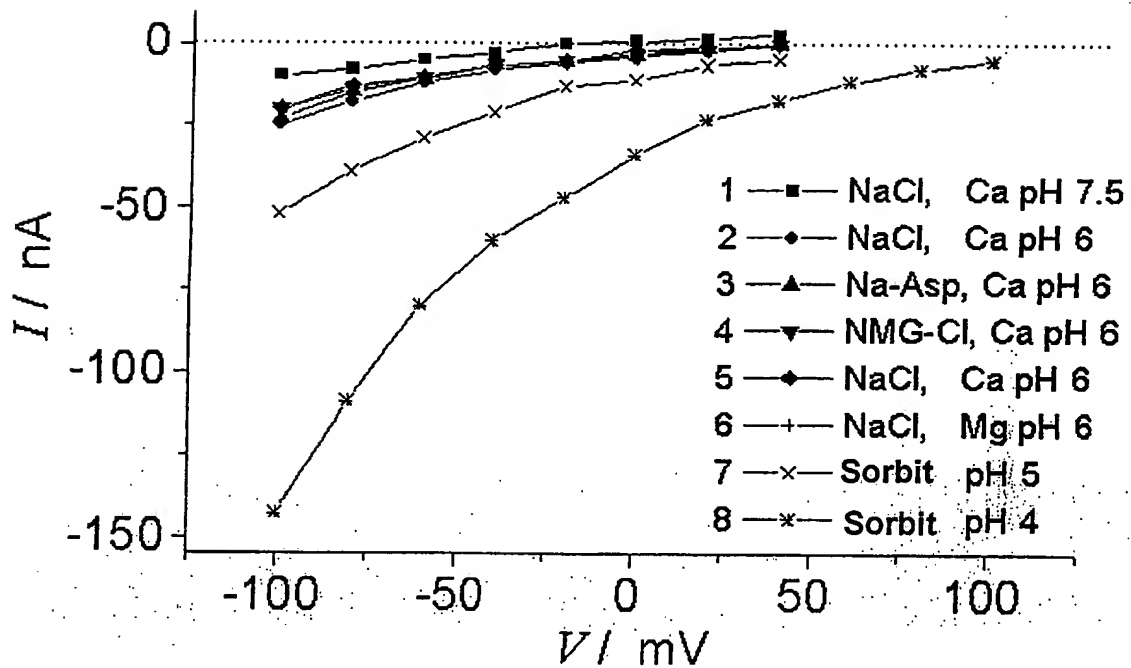
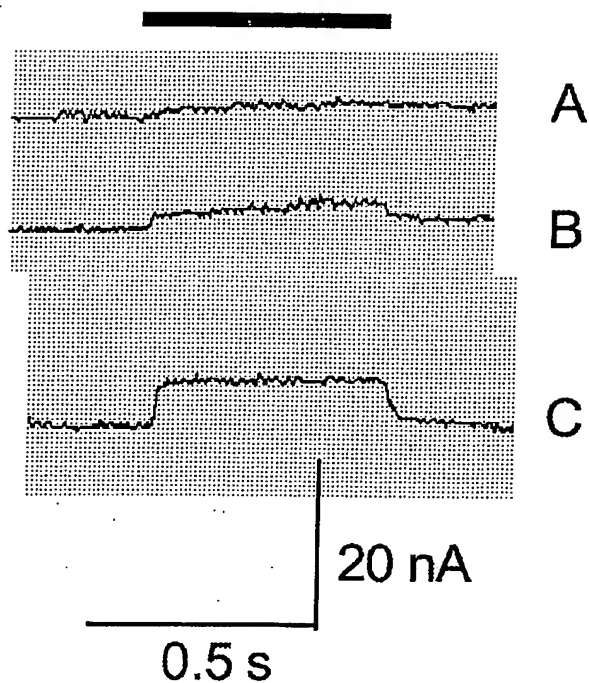


Fig. 3

10/14

a



b

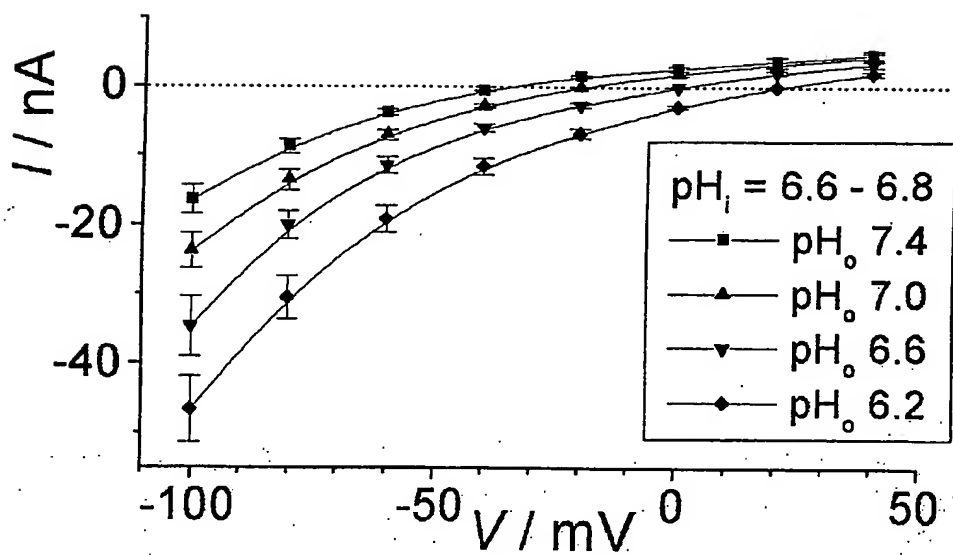
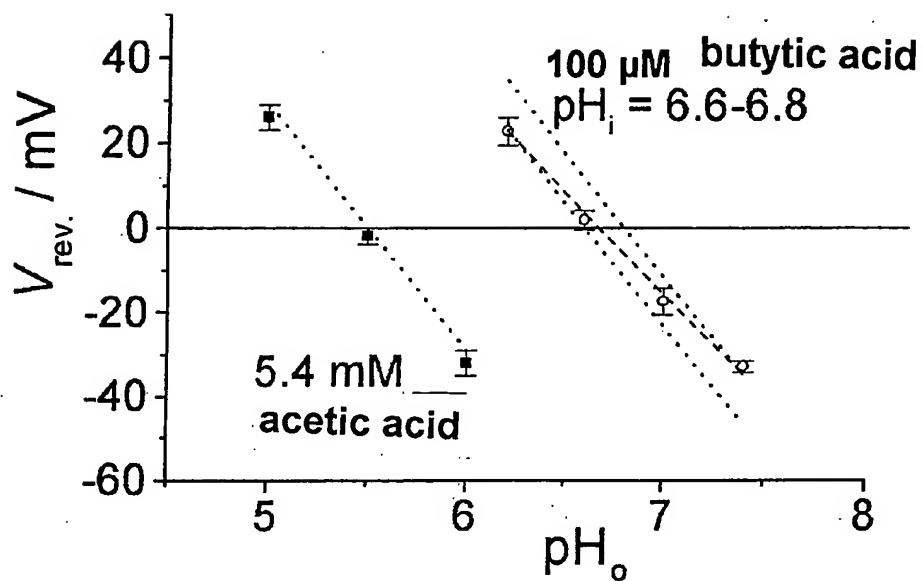


Fig. 4

11/14

c



d

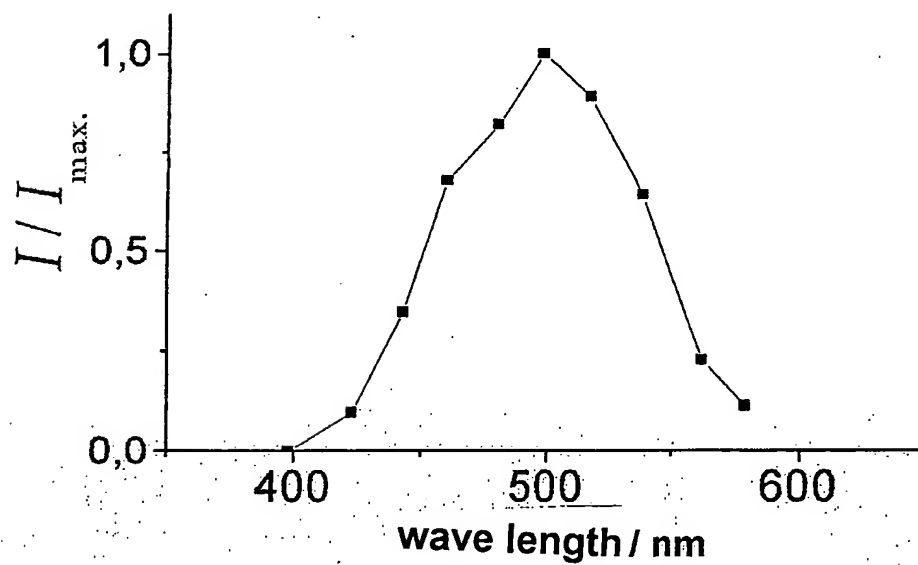


Fig. 4

12/14

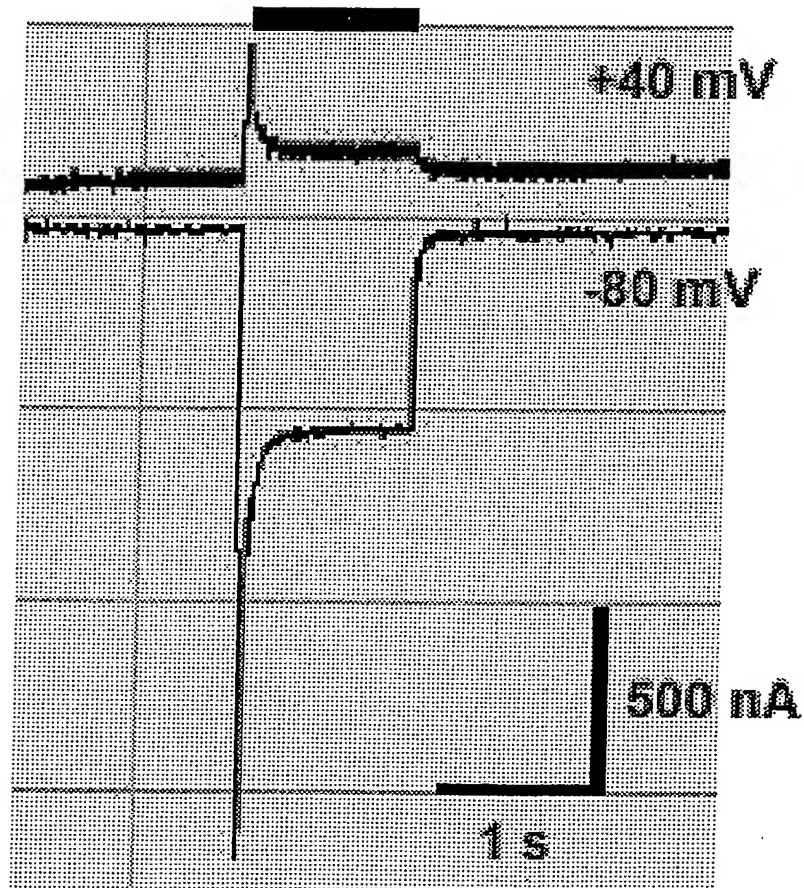


Fig. 5

13/14

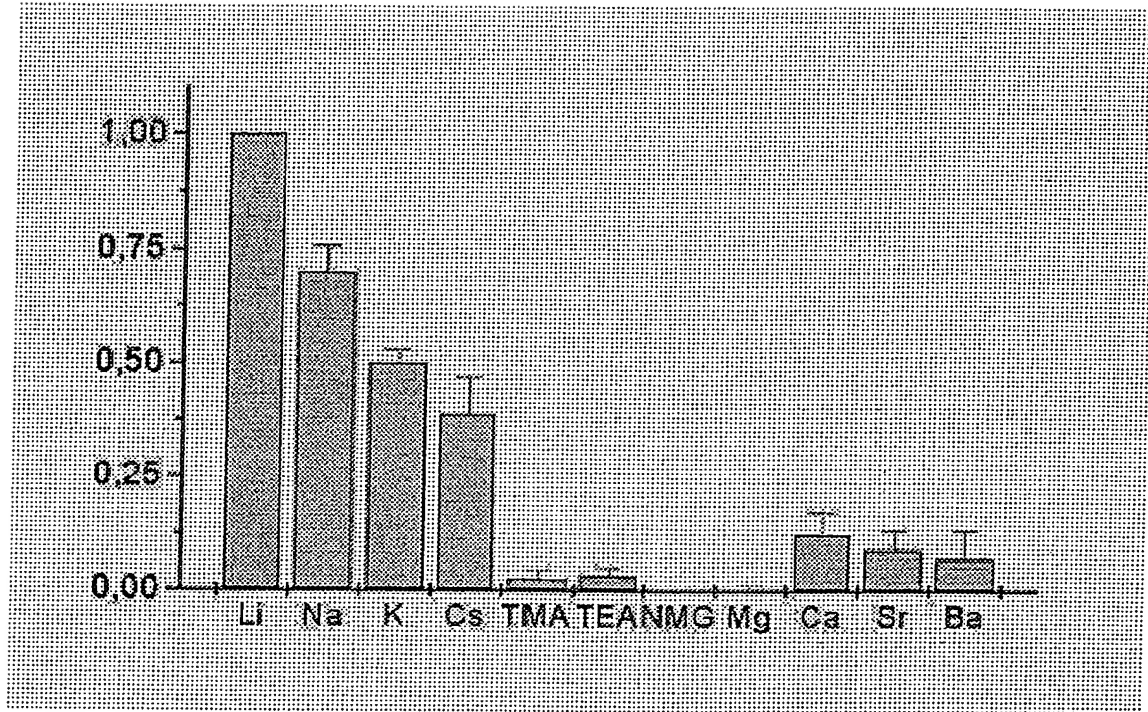


Fig. 6

14/14

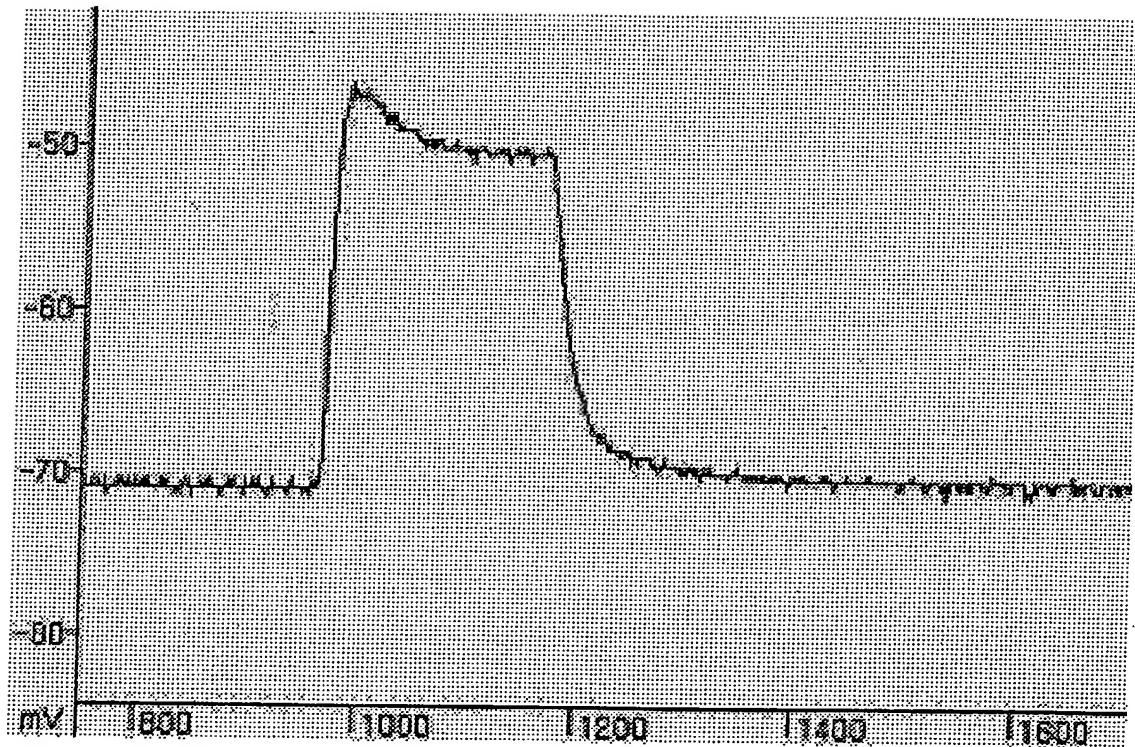


Fig. 7